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**THE UNITED STATES PATENT  
AND TRADEMARK OFFICE**

Applicant(s): Minoru USUI et al

Serial No. : 08/892,482

Filed : July 14, 1997

For : IMAGE DISPLAY  
APPARATUS

Art Unit : 2415

Examiner :

**INFORMATION DISCLOSURE STATEMENT**

Assistant Commissioner of Patents  
Washington, D.C. 20231

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*Cheryl Schoenfeld*  
Cheryl Schoenfeld

In the event that this Paper is late  
filed, and the necessary petition for  
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this as a Petition for the requisite  
extension of time, and to the extent not  
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authorization to charge the extension  
fee to Account No. 06-1378.

Submitted herewith are copies of two publications which are  
identified on the attached form PTO-1449. These two publications  
were cited in a Japanese Office Action dated August 5, 1997  
issued in the corresponding basic Japanese Application No.  
3-140269 (the priority of which is claimed in the present  
application).

It is respectfully requested that the Examiner return an  
initialled copy of the PTO-1449, listing the particulars of the  
two cited Japanese publications, to confirm that the Japanese  
publications have been considered and made of record.

## DISCUSSION OF JAPANESE REFERENCES

An English language Abstract is provided for Japanese 3-126069. It is respectfully submitted that the Abstract constitutes an explanation of relevance of Japanese 3-126069.

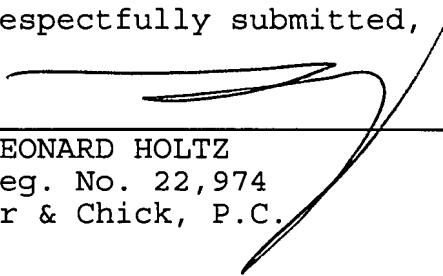
Statement of Relevancy (JPN UM APPLN KOKAI  
PUBLICATION NO. 2-113476

In a liquid crystal display apparatus for effecting gradation display, the liquid crystal is slow in response speed and, when there occurs a display data gradation variation, a gradation display variation is slow to follow on the liquid crystal display apparatus. The invention of JPN 2-113476 is directed to solving this problem. To achieve this, in JPN 2-113476, a comparison is made between the gradation data of a current frame and the one-frame-previous gradation data. If the gradation data of the current frame is greater than the one-frame-previous gradation data, a maximum value of the gradation data is output to be applied to the liquid crystal display apparatus. If, on the other hand, the gradation data of the current frame is smaller than the one-frame-previous data, a minimum value of the gradation data is output to be applied to the liquid crystal display apparatus. By doing so, the gradation variation is enhanced and a rapid speed response is made to the gradation display variation on the liquid crystal display apparatus of JPN 2-113476.

In JPN UM APPLN KOKAI PUBLICATION No. 2-113476, a comparison is made between the gradation data of the current frame and the one-frame-previous gradation data to produce a maximum gradation value or a minimum gradation value. In the present invention, on the other hand, a table is initially prepared for storing gradation data, and given gradation data is determined by the gradation data of a current frame and that of a previous frame and read out from the table so that it is applied to a liquid crystal display apparatus. No mention or suggestion is made in JPN UM APPLN KOKAI PUBLICATION No. 2-11347G, of the present inventive concept of initially storing gradation data, as gradation variation enhancing data, in a table.

In view of the above, it is respectfully requested that the Examiner consider the publications submitted herewith, and return an initialled copy of the attached form PTO-1449 to confirm that the publications listed therein have been considered and made of record.

Respectfully submitted,

  
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Enc. - form PTO-1449 and references cited therein.